

**Introduced by Senator Wyland**

February 14, 2011

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An act to add Section 52952 to the Education Code, relating to science education.

**LEGISLATIVE COUNSEL'S DIGEST**

SB 282, as introduced, Wyland. Science education: science curriculum.

The California Constitution requires the Legislature to encourage by all suitable means the promotion of intellectual, scientific, moral, and agricultural improvement. Under existing law, the Legislature finds and declares that improved science education in elementary and secondary schools contributes to improvements in pupil performance. Existing law provides for the establishment by the University of California, upon approval by the regents, of the California Science Project for purposes of providing science education to public elementary, secondary, and postsecondary school personnel located in rural, urban, and suburban areas throughout the state.

This bill would make specified findings and declarations and would require the Superintendent of Public Instruction and the State Board of Education to consider ways to increase the number of pupils who go to college and graduate with degrees in the various scientific and engineering fields. The bill would require the Superintendent and the state board to direct the appropriate entity to revise the science teaching frameworks and standards, as specified, and to incorporate in the science curriculum applied mathematics, reading comprehension, expository writing, analytical, intellectual, and creative skills, and engineering elements.

Vote: majority. Appropriation: no. Fiscal committee: yes.  
State-mandated local program: no.

*The people of the State of California do enact as follows:*

1     SECTION 1. The Legislature finds and declares both of the  
2     following:  
3     (a) Science and technical innovation is critical for the future of  
4     California.  
5     (b) California is not producing enough scientists and engineers  
6     to meet the challenges that businesses located in this state will face  
7     in the global competition of the future.  
8     SEC. 2. Section 52952 is added to the Education Code, to read:  
9     52952. (a) The Superintendent and the state board shall  
10    consider ways to increase the number of pupils who go to college  
11    and graduate with degrees in the various scientific and engineering  
12    fields, including either of the following:  
13    (1) Recruiting more science teachers through incentives and  
14    public-private partnerships designed to encourage pupils to go to  
15    college, major in science and related fields, and enter teaching  
16    careers.  
17    (2) Encouraging businesses in the private sector to participate  
18    in educating pupils and in offering them exposure to possible  
19    careers in the science and engineering fields.  
20    (b) To increase the number of pupils who go to college and  
21    graduate with degrees in the various scientific and engineering  
22    fields, the Superintendent and the state board shall direct the  
23    appropriate entity to do the following:  
24    (1) Revise the science teaching frameworks and standards, if  
25    necessary, to reflect the model curriculum developed by  
26    organizations of outstanding scientists, such as the National  
27    Academy of Science.  
28    (2) Incorporate in the science curriculum applied mathematics,  
29    reading comprehension, and expository writing in describing  
30    observations and experiments.  
31    (3) Incorporate in the science curriculum analytical, intellectual,  
32    and creative skills required to pose and investigate scientific  
33    questions.

- 1     (4) Incorporate in the science curriculum engineering elements
- 2     in a manner designed to engage pupils.

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